

Water Portfolios

San Francisco Bay Hydrologic Region

ID Number:	Flow Diagram Component (see legend)	San Francisco 1998	San Francisco 2000	San Francisco 2001
1	Colorado River Deliveries	-	-	-
2	Total Desalination	-	-	-
3	Water from Refineries	-	-	-
4a	Inflow From Oregon	-	-	-
b	Inflow From Mexico	-	-	-
5	Precipitation	11,438.0	6,643.7	4,908.0
6a	Runoff - Natural	-	-	-
b	Runoff - Incidental	-	-	-
7	Total Groundwater Natural Recharge	-	-	-
8	Groundwater Subsurface Inflow	-	-	N/A
9	Local Deliveries	273.7	244.0	216.4
10	Local Imports	501.2	502.9	529.8
11a	Central Valley Project :: Base Deliveries	-	-	-
b	Central Valley Project :: Project Deliveries	104.7	108.6	109.4
12	Other Federal Deliveries	37.7	34.5	37.5
13	State Water Project Deliveries	134.2	155.0	121.3
14a	Water Transfers - Regional	1.0	1.0	0.2
b	Water Transfers - Imported	-	-	-
15a	Releases for Delta Outflow - CVP	-	-	-
b	Releases for Delta Outflow - SWP	-	-	-
c	Instream Flow Applied Water	23.1	21.5	20.0
16	Environmental Water Account Releases	-	-	-
17a	Conveyance Return Flows to Developed Supply - Urban	-	-	-
b	Conveyance Return Flows to Developed Supply - Ag	-	-	-
c	Conveyance Return Flows to Developed Supply - Managed Wetlands	-	-	-
18a	Conveyance Seepage - Urban	-	-	-
b	Conveyance Seepage - Ag	-	-	-
c	Conveyance Seepage - Managed Wetlands	-	-	-
19a	Recycled Water - Agriculture	10.5	10.3	10.3
b	Recycled Water - Urban	5.7	5.9	5.9
c	Recycled Water - Groundwater	6.2	6.2	6.2
20a	Return Flow to Developed Supply - Ag	-	-	-
b	Return Flow to Developed Supply - Wetlands	-	-	-
c	Return Flow to Developed Supply - Urban	-	-	-
21a	Deep Percolation of Applied Water - Ag	-	-	-
b	Deep Percolation of Applied Water - Wetlands	-	-	-
c	Deep Percolation of Applied Water - Urban	40.4	43.9	45.9
22a	Reuse of Return Flows within Region - Ag	-	-	-
b	Reuse of Return Flows within Region - Wetlands, Instream, W&S	-	-	-
24a	Return Flow for Delta Outflow - Ag	-	-	-
b	Return Flow for Delta Outflow - Wetlands, Instream, W&S	-	-	-
c	Return Flow for Delta Outflow - Urban Wastewater	-	-	-
25	Direct Diversions	-	-	-
26	Surface Water in Storage - Beg of Yr	491.3	530.5	505.7
27	Groundwater Extractions - Banked	-	-	-
28	Groundwater Extractions - Adjudicated	-	-	-
29	Groundwater Extractions - Unadjudicated	37.6	139.3	219.9
23	Groundwater Subsurface Outflow	N/A	N/A	N/A
30	Surface Water Storage - End of Yr	567.6	505.7	449.4
31	Groundwater Recharge-Contract Banking	-	-	-
32	Groundwater Recharge-Adjudicated Basins	-	-	-
33	Groundwater Recharge-Unadjudicated Basins	-	-	-
34a	Evaporation and Evapotranspiration from Native Vegetation	-	-	-
b	Evaporation and Evapotranspiration from Unirrigated Ag	-	-	-
35a	Evaporation from Lakes	10.1	10.1	9.8
b	Evaporation from Reservoirs	104.4	103.4	98.8
36	Ag Effective Precipitation on Irrigated Lands	35.4	36.2	34.1
37	Agricultural Water Use	90.1	108.3	119.2
38	Managed Wetlands Water Use	6.2	6.2	6.2
39a	Urban Residential Use - Single Family - Interior	120.3	130.4	135.9
b	Urban Residential Use - Single Family - Exterior	280.0	304.3	317.0
c	Urban Residential Use - Multi-family - Interior	171.3	185.0	193.5
d	Urban Residential Use - Multi-family - Exterior	42.8	46.3	48.4
40	Urban Commercial Use	206.4	223.2	233.0
41	Urban Industrial Use	59.4	63.5	66.1
42	Urban Large Landscape	83.7	90.8	94.6
43	Urban Energy Production	-	-	-
44	Instream Flow	23.1	21.5	20
45	Required Delta Outflow	-	-	-
46	Wild and Scenic Rivers	-	-	-
47a	Evapotranspiration of Applied Water - Ag	69.4	83.7	91.8
b	Evapotranspiration of Applied Water - Managed Wetlands	3.1	3.1	3.1
c	Evapotranspiration of Applied Water - Urban	290.7	306.9	320
48	Evaporation and Evapotranspiration from Urban Wastewater	-	-	-
49	Return Flows Evaporation and Evapotranspiration - Ag	-	-	-
50	Urban Waste Water Produced	560	605	631.5
51a	Conveyance Evaporation and Evapotranspiration - Urban	6.2	6.1	5.6
b	Conveyance Evaporation and Evapotranspiration - Ag	0.7	0.7	0.6
c	Conveyance Evaporation and Evapotranspiration - Managed Wetlands	-	-	-
d	Conveyance Outflow to Mexico	-	-	-
52a	Return Flows to Salt Sink - Ag	21.4	25.3	28
b	Return Flows to Salt Sink - Urban	639	698.8	728.2
c	Return Flows to Salt Sink - Wetlands	3.1	3.1	3.1
53	Remaining Natural Runoff - Flows to Salt Sink	23.1	21.5	20
54a	Outflow to Nevada	-	-	-
b	Outflow to Oregon	-	-	-
c	Outflow to Mexico	-	-	-
55	Regional Imports	763.8	822.9	871.1
56	Regional Exports	0.0	0.0	0.0
59	Groundwater Net Change in Storage	-70.4	114.5	-153.2
60	Surface Water Net Change in Storage	76.3	-24.8	-56.3
61	Surface Water Total Available Storage	746.1	746.1	746.1



Inflows

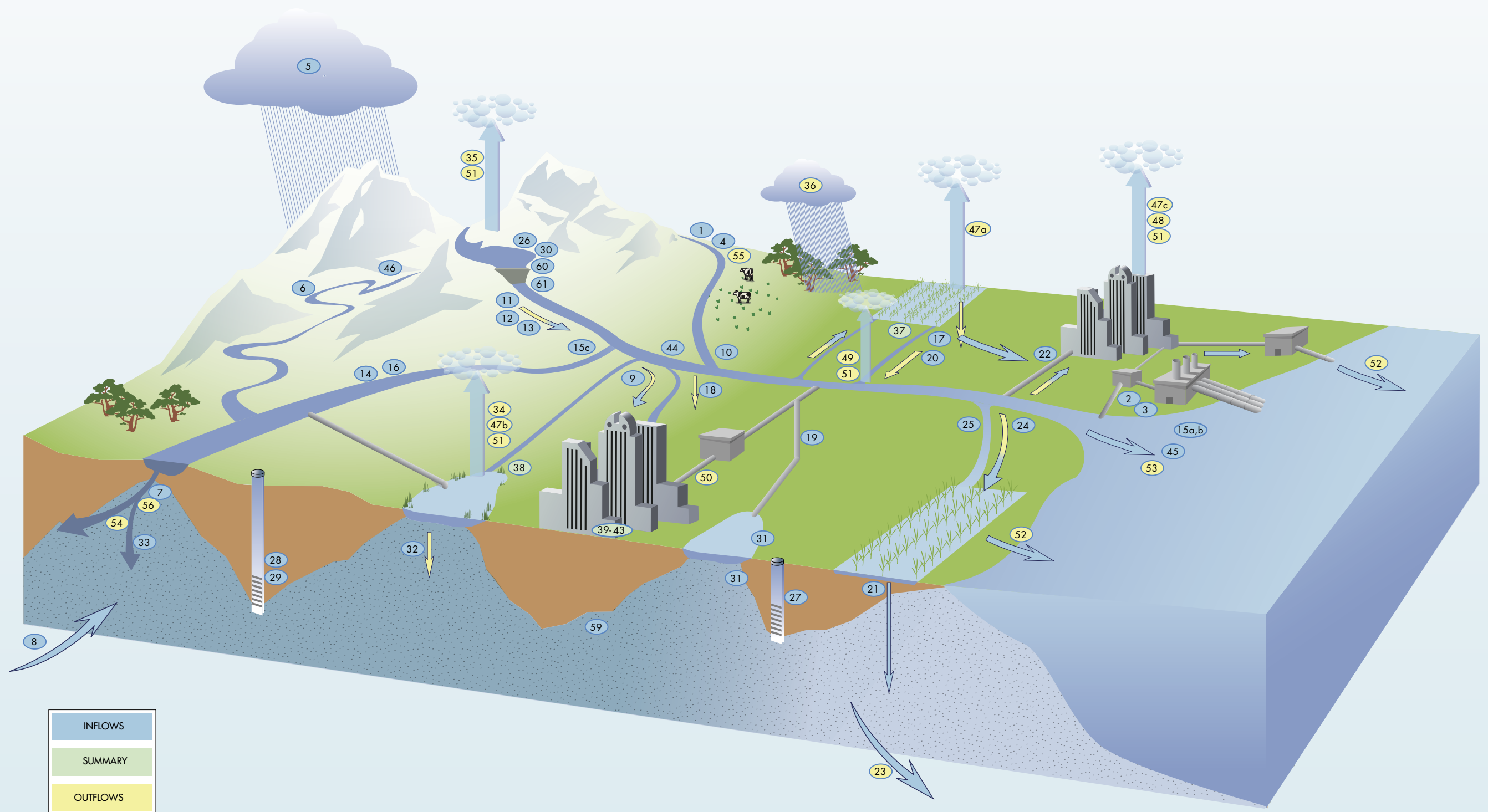


Outflows



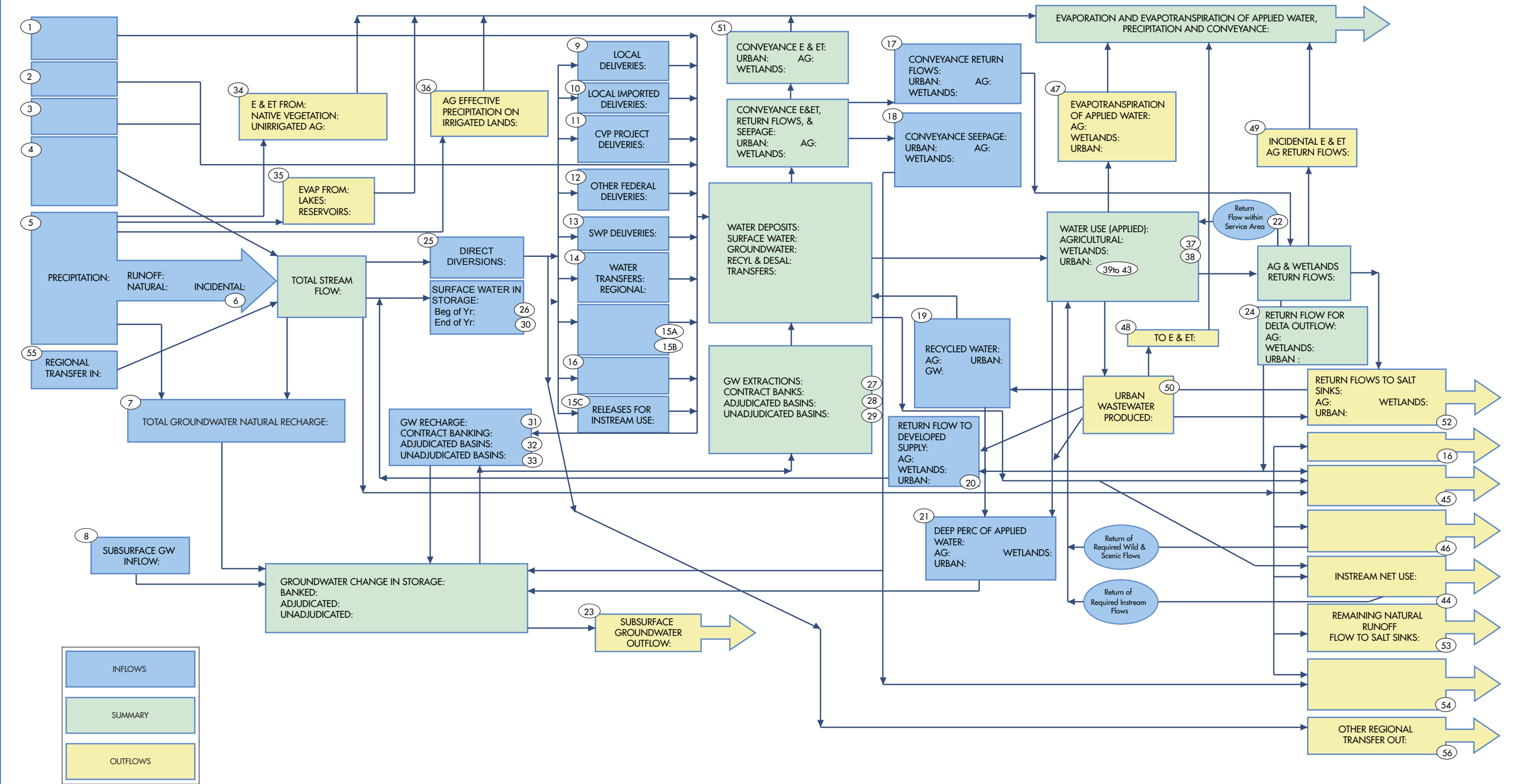
Green number signifies included in summary boxes

Figure 3-4 San Francisco Bay region - illustrated water flow diagram



In this illustration of Table 3-4, key components of the flow diagram are shown as characteristic elements of the hydrologic cycle. Circled numbers correspond to the identification number of the table's flow diagram components; its color indicates whether the component is water input, output, or summary.

Figure 3-5 San Francisco Bay region - schematic flow diagram



In schematic of Table 3-4, key components of the flow diagram are shown as boxes and connectors in a flow chart. Circled numbers correspond to the identification number of flow diagram components in the table; box color indicates whether component is water input, output, or summary. Blank boxes are flow diagram components not relevant to the region.